

hR1Z	60	ATETLA	EVPE	HVLRCL	PEEV	RLFPSA	VDKT	RIGVAT	KPI	LKGKKE	GPV
rR1Z	59	ATETLA	EVPE	HVLRCL	PEEV	RLFPSA	VDKT	RIGVAT	KPI	LKGKKE	GPV
Consensus	60	ATETLA	EVPE	HVLRCL	PEEV	RLFPSA	VDKT	RIGVAT	KPI	LKGKKE	GPV
hR1Z	120	GNVYME	VVY	PNLGM	CIDA	TOPEK	GNWL	YVWACS	GEE	QNLFP	LEINR
rR1Z	119	GNVYME	VVY	PNLGM	CIDA	TOPEK	GNWL	YVWACS	GEE	QNLFP	LEINR
Consensus	120	GNVYME	VVY	PNLGM	CIDA	TOPEK	GNWL	YVWACS	GEE	QNLFP	LEINR
hR1Z	180	AIYYKT	TLKPI	APGEEL	LVWY	NGEDN	PEIAA	AIEEER	ASAR	SKRSSP	KSRK
rR1Z	179	AIYYKT	TLKPI	APGEEL	LVWY	NGEDN	PEIAA	AIEEER	ASAR	SKRSSP	KSRK
Consensus	180	AIYYKT	TLKPI	APGEEL	LVWY	NGEDN	PEIAA	AIEEER	ASAR	SKRSSP	KSRK
hR1Z	240	KCNKI	QDIQL	KISE	DTEA	NMRIS	SAECPK	ED	EN	PEASA	TEQPA
rR1Z	239	KCIRTH	PTQL	KISE	DTEA	NMRIS	SAECPK	ED	EN	PEASA	TEQPA
Consensus	240	KCIRTH	PTQL	KISE	DTEA	NMRIS	SAECPK	ED	EN	PEASA	TEQPA
hR1Z	300	TPPA	EPQP	E	DERL	EA	AA	CEVND	CEEE	EEEE	EEEE
rR1Z	295	TPPA	EPQP	E	DERL	EA	AA	CEVND	CEEE	EEEE	EEEE
Consensus	300	TPPA	EPQP	E	DERL	EA	AA	CEVND	CEEE	EEEE	EEEE
hR1Z	360	NE	S	KEPEI	RC	KEKPED	LL	EE	KT	SE	ET
rR1Z	355	NE	S	KEPEI	RC	KEKPED	LL	EE	KT	SE	ET
Consensus	360	NE	S	KEPEI	RC	KEKPED	LL	EE	KT	SE	ET

FIGURE 1A

hR1Z	PCQHCKERKFT	TKQGLERHMH	IHIST	NHAF	KCKYCGK	FG	TOINRRRRHER	RHE	GLKR	P	420	
rR1Z	PCQHCKERKFA	TKQGLERHMH	IHIST	NHAF	KCKYCGK	FG	TOINRRRRHER	RHE	GLKR	P	415	
Consensus	PCQHCKERKF	TKQGLERHMH	IHIST	NHAF	KCKYCGK	FG	TOINRRRRHER	RHE	GLKR	P	420	
hR1Z	STLQSEDL	ADGKASGENV	PSKDESSPPS	LC	DCLI	NS	EX	SD	INS	S	VEENCEVK	480
rR1Z	STLQSEDP	DGKASGENV	PSKDESSPPQ	LC	DCLI	NS	EX	SD	INS	S	VEENCEVK	473
Consensus	STLQSED	DGKASGENV	PSKDESSPP	LC	DCLI	NS	EX	SD	INS	S	VEENCEVK	480
hR1Z	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRRKGG	LEE	POPPAE	QADATQNVV				539	
rR1Z	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRRKGG	LEE	POPPAE	QAPPSQNVV				533	
Consensus	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRRKGG	LEE	POPPAE	QA...QNVV				540	
hR1Z	PSTEPEEEGE	DDVYIMDIS	SNISENLNYY	IDGKIQTNN		TSNCDVIEME	S	SA	LYGI		599	
rR1Z	PSTEPEEEGE	DDVYIMDIS	SNISENLNYY	IDGKIQTNS		TSNCDVIEME	S	SA	LYGID		593	
Consensus	PSTEPEEEGE	DDVYIMDIS	SNISENLNYY	IDGKIQTN..		TSNCDVIEME	S	SA	LYGI		600	
hR1Z	CLLTPVTVEI	TONIKITQVP	VTDLKEPL	QSTNSE	KKR	RTASPP	LPK	IK	ET	SDPM	659	
rR1Z	CLLTPVTVEI	TONIKETQVS	VTDLKDSP	SSTNCESKKR	RTASPP	LPK	IK	ET	ESDST		653	
Consensus	CLLTPVTVEI	TONIKITQV	VTDLK...	STN	KKR	RTASPP	LPK	IK	ET	SD..	660	
hR1Z	VPSCSLSLPL	SISTE	VSF	HKEK	VYLSS	KLKQLLOTQD	KLTE	PAC	SA	TEI	KLGPVC	719
rR1Z	APSCSLSLPL	SISTE	VSF	HKEK	VYLSS	KLKQLLOTQD	KLTE	PAC	SA	TEI	KLGPVC	713
Consensus	PSCSLSLPL	SISTE	VSF	HKEK	VYLSS	KLKQLLOTQD	KLTE	PAC	SA	TEI	KLGPVC	720

FIGURE 1B

779	USAPASMLPV	TSSRFKRRTS	SPPSSPOHSP	ALRDFGKP	D	GKAAWTD	CL	TSKK	KLES	
773	ASAPASMLPV	TSSRFKRRTS	SPPSSPOHSP	ALRDFGKP	D	GKAAWTD	CL	TSKK	KLES	
780	SAPASMLPV	TSSRFKRRTS	SPPSSPOHSP	ALRDFGKP	D	GKAAWTD	L	TSKK	KLES	
Consensus										
839	SDSPAWSLSC	RDERET	SPP	CFDEYK	SKE	W	ASS	FSSV	CNQOPLDLSS	GVKQKECTG
833	SOSPAWSLSC	RDERET	SPP	CFDEYK	SKE	W	ASS	FSSV	CNQOPLDLSS	GVKQKECTG
840	SDSPAWSLSC	RDERET	SPP	CFDEYK	SKE	W	ASS	FSSV	CNQOPLDLSS	GVKQKECTG
Consensus										
899	KTPV	WESVL	DLSVHKK	CP	DSECKEFKE	MS	QPTCSAV	KK	KPTTCML	QVLLNEYNC
889	KTPV	WESVL	DLSVHKK	CP	DSECKEFKE	MS	QPTCSAV	KK	KPTTCML	QVLLNEYNC
900	KTPV	WESVL	DLSVHKK	CP	DSECKEFKE	MS	QPTCSAV	KK	KPTTCML	QVLLNEYNC
Consensus										
958	IDL	ENPAD	QTRSPSPCKS	LEA	QDP	LG	P	SCFP	P	TV
949	VEL	ETPE	VTRSPSPCKS	PDT	QDP	LG	P	SCS	P	TA
960	LP	E	TRSPSPCKS	QDP	LG	P	S	PT		
Consensus										
1018	SCQLP	PL	P	T	PSSPPPCP	PVLT	VATPPP	PLL	TV	PLA
1009	SCQLP	PL	P	T	PSSPPPCP	PVLT	VATPPP	PLL	TV	PLH
1020	SCQLP	PL	P	T	PSSPPPCP	PVLT	VATPPP	PLL	TV	PL
Consensus										
1078	SPLP	ILSPTV	SPSP	PIPPV	EPL	MSAASPG	PPT	LSSSSSS	SSS	SS
1067	SPLP	ILSPTV	SPSP	PIPPV	EPL	MSAASPG	PPT	LSSSSSS	SSS	SS
1080	SPLP	ILSPTV	SPSP	PIPPV	EPL	MSAASPG	PPT	LSSSSSS	SSS	SS
Consensus										

hRIZ	LSA	SSVVSS	GDNLEASLP	ISFKQEE	EN	EGLKPEEP	Q	SAR	QDV	VVQ	ETF	KNF	CN	1138
rRIZ	LSA	SSVVSS	GDNLEASLP	VTFKQEE	ES	EGLKPEEP	P	PAD	QDS	VVQ	ETFE	KNF	CN	1126
Consensus	LSA	SSVVSS	GDNLEASLP	FKQEE	E	EGLKPEEP	EE	A	Q	VVQ	ETF	KNF	CN	1140
hRIZ	VCES	PFLSIK	DLTKHLS	HA	EEWPFKCEFC	VQLFK	KTDL	SEHR	FLHGV	GNIFVCSVCK				1198
rRIZ	VCES	PFLSIK	DLTKHLS	HA	EEWPFKCEFC	VQLFK	KTDL	SEHR	FLHGV	GNIFVCSVCK				1186
Consensus	VCES	PFLSIK	DLTKHLS	HA	EEWPFKCEFC	VQLFK	KTDL	SEHR	FLHGV	GNIFVCSVCK				1200
hRIZ	KEFA	FLCNLQ	QHQRDLHPDK	VTCTHIEFESC	TLRPQNFTDP	SKA	VEH	MS	LPE	PLETSK				1258
rRIZ	KEFA	FLCNLQ	QHQRDLHPDE	VTCTHIEFESC	TLRPQNFTDP	SKA	VEH	MS	LPE	PLETSR				1246
Consensus	KEFA	FLCNLQ	QHQRDLHPD	VTCTHIEFESC	TLRPQNFTDP	SKA	VEH	MS	LPE	PLETS				1260
hRIZ	EEE	LND	SE	ELYTTIKIMA	SGIKTKDPDV	RLGLNQHYPS	FKPPP	FQYHH	RNPMGIGVTA					1318
rRIZ	EEE	LND	SE	ELYTTIKIMA	SGIKTKDPDV	RLGLNQHYPS	FKPPP	FQYHH	RNPMGIGVTA					1305
Consensus	EEE	LND	SE	ELYTTIKIMA	SGIKTKDPDV	RLGLNQHYPS	FKPPP	FQYHH	RNPMGIGVTA					1320
hRIZ	TNFT	THNIPO	TFTTAIRCTK	CGKGVNDMP	E	LHKHILACAS	ASDKKRYTPK	KNPVPLKQTV						1378
rRIZ	TNFT	THNIPO	TFTTAIRCTK	CGKGVNDMP	E	LHKHILACAS	ASDKKRYTPK	KNPVPLKQTV						1365
Consensus	TNFT	THNIPO	TFTTAIRCTK	CGKGVNDMP	E	LHKHILACAS	ASDKKRYTPK	KNPVPLKQTV						1380
hRIZ	QPKN	GVVVD	NSCKNAFRM	QPKRL	FEV	EL	KMS	NKL	KL	ALKKKNQ	LVQKAILQKN			1438
rRIZ	QPKN	GVVVD	NSCKNAFRM	QPKRL	FEV	EL	KMS	NKL	KL	ALKKKNQ	LVQKAILQKN			1425
Consensus	QPKN	GVVVD	NSCKNAFRM	QPKRL	FEV	EL	KMS	NKL	KL	ALKKKNQ	LVQKAILQKN			1440

FIGURE 1D

hRIZ	1498
rRIZ	1485
Consensus	1500
hRIZ	1558
rRIZ	1545
Consensus	1560
hRIZ	1618
rRIZ	1605
Consensus	1620
hRIZ	1678
rRIZ	1665
Consensus	1680
hRIZ	1719
rRIZ	1707
Consensus	1722

FIGURE 1E

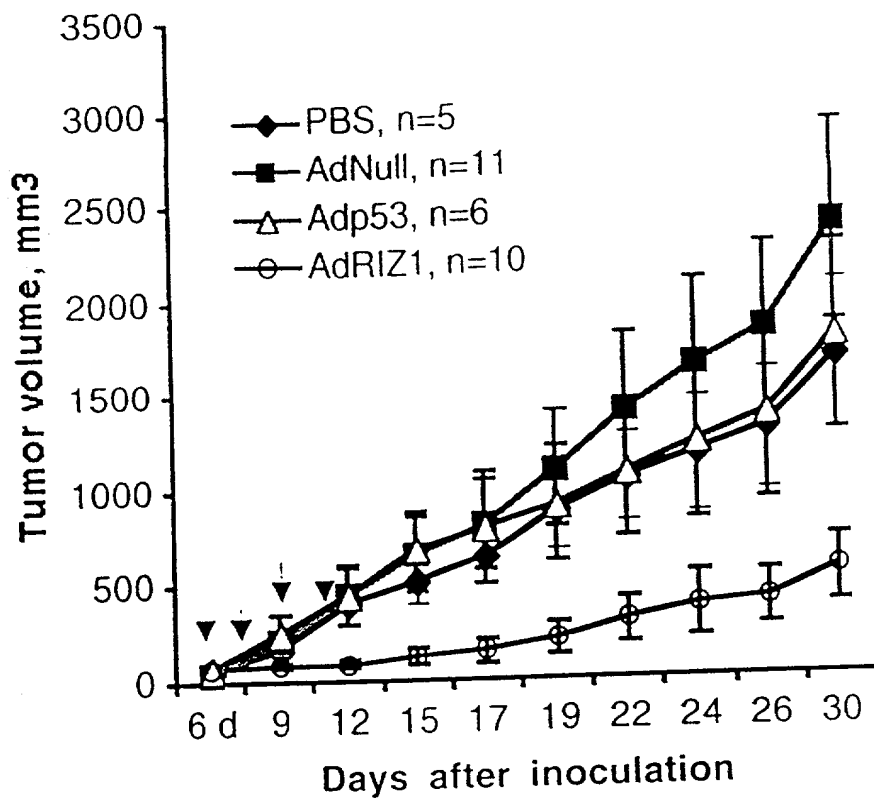


FIGURE 2

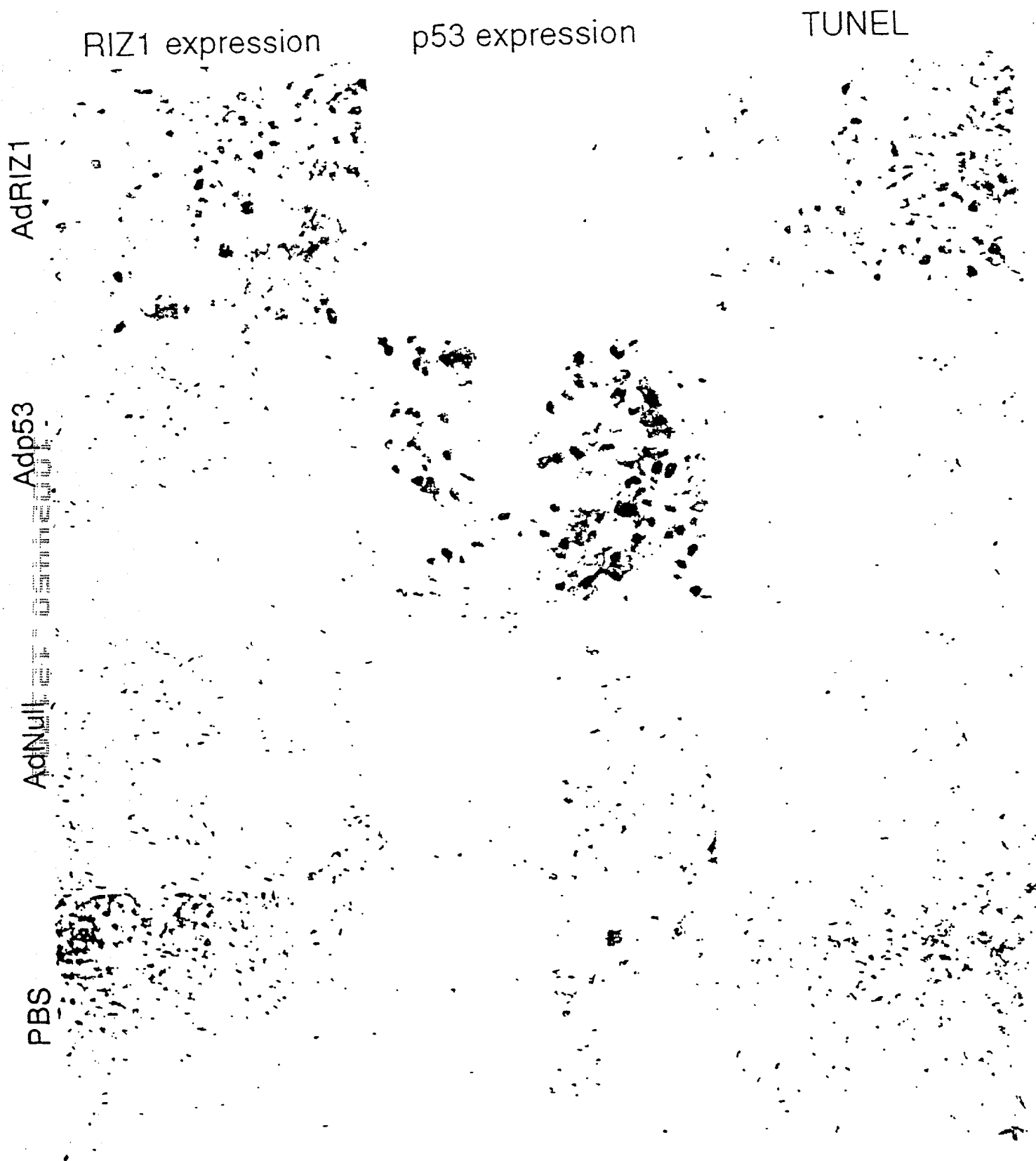


FIGURE 3